

IN THE CLAIMS

Please amend Claims 1, 4, 5, 8, 11, 14, 15, 18, 23, 26, 27, 30 and 31 in accordance with the following rewritten claims in clean form. Applicant includes herewith an Attachment for Claim Amendments showing a marked up version of each amended claim.

7 (Amended) A scroll-type compressor for handling a working fluid, said compressor comprising:

a shell having a suction zone and a discharge zone;

a first scroll member disposed in said shell and having a first scroll wrap extending from a first end plate;

a second scroll member disposed in said shell and having a second scroll wrap extending from a second end plate, said second scroll wrap being intermeshed with said first scroll wrap to define a plurality of closed pockets;

a drive mechanism for causing said second scroll member to orbit with respect to said first scroll member, said plurality of pockets moving from a radial outer position in said suction zone to a central position in said discharge zone;

a fluid circuit in communication with at least one of said plurality of pockets, said fluid circuit including a fluid passage extending from said one pocket to a position outside said shell, said fluid passage extending through said second scroll member;

a housing disposed within said shell, said housing supporting said second scroll member, said fluid passage extending through said housing; and

Q6 a valve disposed within said housing, said valve controlling fluid flow through said fluid passage.

~~8~~ 4. (Amended) The scroll-type compressor according to Claim 1, wherein said valve is controlled by a pressurized fluid from outside said shell.

~~1~~ 5. (Amended) A scroll-type compressor for handling a working fluid, said compressor comprising:

a shell having a suction zone and a discharge zone;

a first scroll member disposed in said shell and having a first scroll wrap extending from a first end plate;

Q7 a second scroll member disposed in said shell and having a second scroll wrap extending from a second end plate, said second scroll wrap being intermeshed with said first scroll wrap to define a plurality of closed pockets;

a drive mechanism for causing said second scroll member to orbit with respect to said first scroll member, said plurality of pockets moving from a radial outer position in said suction zone to a central position in said discharge zone;

a fluid circuit in communication with at least one of said plurality of pockets, said fluid circuit including a fluid passage extending from said one pocket to a position outside said shell, said fluid passage extending through said second scroll member; and

a valve for controlling fluid flow through said fluid passage.

11
8.

(Amended) A scroll-type compressor for handling a working fluid,
said compressor comprising:

a shell having a suction zone and a discharge zone;

a first scroll member disposed in said shell and having a first scroll wrap
extending from a first end plate;

a second scroll member disposed in said shell and having a second scroll
wrap extending from a second end plate, said second scroll wrap being intermeshed
with said first scroll wrap to define a plurality of closed pockets;

a drive mechanism for causing said second scroll member to orbit with
respect to said first scroll member, said plurality of pockets moving from a radial outer
position in said suction zone to a central position in said discharge zone;

a fluid circuit in communication with at least one of said plurality of
pockets, said fluid circuit including a fluid passage extending from said one pocket to a
position outside said shell, said fluid passage extending through said second scroll
member; and

a housing having a plurality of legs disposed within said shell, said
housing supporting said second scroll member, said fluid passage extending through
one of said legs of said housing.

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11.

(Amended) A scroll-type compressor for handling a working fluid;

said compressor comprising:

a shell;

a non-orbiting scroll member disposed within said shell and having a non-orbiting scroll wrap extending from a non-orbiting end plate;

an orbiting scroll member disposed within said shell and having an orbiting scroll wrap extending from an orbiting end plate, said orbiting scroll wrap being intermeshed with said non-orbiting scroll member to define a plurality of closed pockets;

a drive mechanism for causing said orbiting scroll member to orbit with respect to said non-orbiting scroll member, said plurality of closed pockets moving from a radial outer position where said working fluid is at a suction pressure to a radially inner central position where said working fluid is at a higher discharge pressure during said orbital movement;

a fluid circuit in communication with at least one of said plurality of moving pockets, said fluid circuit including a fluid passage extending from said one pocket to a position outside of said shell, said fluid pocket extending through said orbiting scroll member;

a housing disposed within said shell, said housing supporting said orbiting scroll member, said fluid passage extending through said housing; and

a valve disposed within said housing, said valve controlling fluid flow through said fluid passage.

¹⁰
~~14.~~ (Amended) The scroll-type compressor according to Claim ⁹~~11~~,
wherein said valve is controlled by a pressurized fluid from outside said shell.

⁴
~~15.~~ (Amended) A scroll-type compressor for handling a working fluid;
said compressor comprising:

a shell;

a non-orbiting scroll member disposed within said shell and having a non-orbiting scroll wrap extending from a non-orbiting end plate;

an orbiting scroll member disposed within said shell and having an orbiting scroll wrap extending from an orbiting end plate, said orbiting scroll wrap being intermeshed with said non-orbiting scroll member to define a plurality of closed pockets;

a drive mechanism for causing said orbiting scroll member to orbit with respect to said non-orbiting scroll member, said plurality of closed pockets moving from a radial outer position where said working fluid is at a suction pressure to a radially inner central position where said working fluid is at a higher discharge pressure during said orbital movement;

a fluid circuit in communication with at least one of said plurality of moving pockets, said fluid circuit including a fluid passage extending from said one pocket to a position outside of said shell, said fluid pocket extending through said orbiting scroll member; and

a valve for controlling fluid flow through said fluid passage.

¹⁸
~~18.~~

(Amended) A scroll-type compressor for handling a working fluid;

said compressor comprising:

a shell;

a non-orbiting scroll member disposed within said shell and having a non-orbiting scroll wrap extending from a non-orbiting end plate;

an orbiting scroll member disposed within said shell and having an orbiting scroll wrap extending from an orbiting end plate, said orbiting scroll wrap being intermeshed with said non-orbiting scroll member to define a plurality of closed pockets;

a drive mechanism for causing said orbiting scroll member to orbit with respect to said non-orbiting scroll member, said plurality of closed pockets moving from a radial outer position where said working fluid is at a suction pressure to a radially inner central position where said working fluid is at a higher discharge pressure during said orbital movement;

a fluid circuit in communication with at least one of said plurality of moving pockets, said fluid circuit including a fluid passage extending from said one pocket to a position outside of said shell, said fluid pocket extending through said orbiting scroll member; and

a housing having a plurality of legs disposed within said shell, said housing supporting said orbiting scroll member, said fluid passage extending through one of said legs of said housing.

~~17~~
~~23.~~

(Amended) A scroll-type compressor for handling a working fluid,
said compressor comprising:

a shell having a suction zone and a discharge zone;

a first scroll member disposed in said shell and having a first scroll wrap
extending from a first end plate;

a second scroll member disposed in said shell and having a second scroll
wrap extending from a second end plate, said second scroll wrap being intermeshed
with said first scroll wrap to define a plurality of closed pockets;

a drive mechanism for causing said second scroll member to orbit with
respect to said first scroll member, said plurality of pockets moving from a radial outer
position in said suction zone to a central position in said discharge zone;

a fluid circuit in communication with at least one of said plurality of
pockets, said fluid circuit including a fluid passage extending from said one pocket to
said suction zone of said compressor, said fluid passage extending through said second
scroll member; and

a housing disposed within said shell, said housing supporting said second
scroll member, said fluid passage extending through said housing.

~~20~~
~~26.~~

(Amended) The scroll-type compressor according to Claim ~~24~~,¹⁸

wherein said fluid passage is in communication with an injection port extending through
said shell and said valve is movable between a first position where said one pocket
communicates with said suction zone of said compressor and a second position where
said one pocket communicates with said injection port extending through said shell.

²¹
~~27.~~

(Amended) A scroll-type compressor for handling a working fluid,
said compressor comprising:

a shell having a suction zone and a discharge zone;

a first scroll member disposed in said shell and having a first scroll wrap
extending from a first end plate;

a second scroll member disposed in said shell and having a second scroll
wrap extending from a second end plate, said second scroll wrap being intermeshed
with said first scroll wrap to define a plurality of closed pockets;

¹³
a drive mechanism for causing said second scroll member to orbit with
respect to said first scroll member, said plurality of pockets moving from a radial outer
position in said suction zone to a central position in said discharge zone;

a fluid circuit in communication with at least one of said plurality of
pockets, said fluid circuit including a fluid passage extending from said one pocket to
said suction zone of said compressor, said fluid passage extending through said second
scroll member; and

a valve for controlling fluid flow through said fluid passage; wherein;

said valve is disposed within said shell; and

said valve is controlled by a pressurized fluid from outside said shell.

²²
~~30.~~

(Amended) The scroll-type compressor according to Claim ²¹~~27~~,
wherein said fluid passage is in communication with an injection port extending through
said shell and said valve is movable between a first position where said one pocket

communicates with said suction zone of said compressor and a second position where said one pocket communicates with said injection port extending through said shell.

²³
~~31.~~ (Amended) A scroll-type compressor for handling a working fluid, said compressor comprising:

a shell having a suction zone and a discharge zone;

a first scroll member disposed in said shell and having a first scroll wrap extending from a first end plate;

a second scroll member disposed in said shell and having a second scroll wrap extending from a second end plate, said second scroll wrap being intermeshed with said first scroll wrap to define a plurality of closed pockets;

a drive mechanism for causing said second scroll member to orbit with respect to said first scroll member, said plurality of pockets moving from a radial outer position in said suction zone to a central position in said discharge zone;

a fluid circuit in communication with at least one of said plurality of pockets, said fluid circuit including a fluid passage extending from said one pocket to said suction zone of said compressor, said fluid passage extending through said second scroll member; and

a housing having a plurality of legs disposed within said shell, said housing supporting said first scroll member, said fluid passage extending through one of said legs of said housing.

Please cancel Claims 2, 3, 12, 13, 21, 22, 28 and 29 without prejudice or disclaimer of the subject matter contained therein.

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